

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)

February 2003

BUDGET ACTIVITY

3 - Advanced technology development

PE NUMBER AND TITLE

**0603125A - Combating Terrorism, Technology Development
for**

COST (In Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate
Total Program Element (PE) Cost	0	41842	4916	3436	0	0	0	0
DF1 SURVIVABILITY & DENIAL	0	0	4916	3436	0	0	0	0
DF2 DETERRENCE, INDICATION & WARNINGS	0	33453	0	0	0	0	0	0
DF3 CONSEQUENCE MANAGEMENT & RECOVERY	0	1431	0	0	0	0	0	0
DF4 ATTRIBUTION & RETALIATION	0	6958	0	0	0	0	0	0

A. Mission Description and Budget Item Justification: The objective of this project is to mature and demonstrate advanced survivability engineering technologies against asymmetric threats. Also supports the Integrated Survivability transformational effort for the Objective Force. Base Camp Protection will demonstrate a survivability planning capability and lightweight low-cost blast/ballistic protective measures. This will increase base camp survivability of personnel and equipment against advanced conventional weapons and terrorist threats, reduce logistics requirements, and enhance the capability of the Objective Force in low-intensity conflicts and peacekeeping operations. The cited work is consistent with the Army Science and Technology Master Plan (ASTMP), the Army Modernization Plan. The program element contains no duplication with any effort within the Military Departments. This work is performed by the U.S. Army Engineer Research and Development Center. This project supports the Objective Force transition path of the Transformation Campaign Plan.

\$41842 in Defense Emergency Response Funds were provided to this program element in FY03.

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<u>B. Program Change Summary</u>	FY 2002	FY 2003	FY 2004	FY 2005
Previous President's Budget (FY 2003)	0	0	0	0
Current Budget (FY 2004/2005 PB)	0	41842	4916	3436
Total Adjustments	0	41842	4916	3436
Congressional program reductions				
Congressional rescissions		-613		
Congressional increases		43900		
Reprogrammings		-240		
SBIR/STTR Transfer		-1205		
Adjustments to Budget Years			4916	3436

Change Summary Explanation: Funding - FY 2004/2005: Funds increased to support Base Camp Protection/Survivability efforts.

FY03 Congressional Adds:

DERF - Counter Terrorism (CT) Echelon Surveillance and Reconnaissance, Project DF2 (\$15000); DERF – Blue Force Awareness Suite, Project DF2 (\$10000); DERF – Universal Soldier Sensor, Project DF2 (\$8000); DERF – Multi-function Remote Unattended Ground Sensor, Project DF2 (\$1500); DERF – Remove Observation & Confirming Sensors, Project DF2 (\$600); DERF – Laser Induced Breakdown Spectroscopy, Project DF3 (\$1500); DERF – Language Translation, Project DF4 (\$7300).

Projects with no R2-As:

- (\$35100) Deterrence, Indications and Warning, Project DF2: The objective of this Defense Emergency Response Fund (DERF) project is to mature technologies needed to help prevent terrorist acts by facilitating the timely interdiction of terrorists, threat agents and/or devices, and early warning of impending attack to enable the implementation of protective countermeasures. Technologies funded include CT Echelon Surveillance and Reconnaissance (\$15000); Blue Force Awareness Suite (\$10000); Universal Soldier Sensor Urban/Cave Assault Kit (\$8000); Multi-function Remote Unattended Ground Sensor (\$1500); and Remove Observation and Confirming Sensors (\$600).
- (\$1500) Consequence Management and Recovery, Project DF3: The objective of this DERF project is to develop a briefcase-size detector capable of detecting and identifying explosives, chemical/biological agents, precursors, and materials potentially associated with terrorist activities. The system is based on Laser Induced Breakdown Spectroscopy.

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<p>- (\$7300) Attrition and Retaliation, Project DF4: The objective of this DERF project is to develop a Language Translation and support system that provides real-time access capability to language translations and associated automated resources in the field.</p>		

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BUDGET ACTIVITY			PE NUMBER AND TITLE				PROJECT			
3 - Advanced technology development			0603125A - Combating Terrorism, Technology Development for				DF1			
COST (In Thousands)			FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate
DF1	SURVIVABILITY & DENIAL		0	0	4916	3436	0	0	0	0
<p><u>A. Mission Description and Budget Item Justification:</u>The objective of this project is to mature and demonstrate advanced survivability engineering technologies against asymmetric threats. Also supports the Integrated Survivability transformational effort for the Objective Force. Base Camp Protection will demonstrate a survivability planning capability and lightweight low-cost blast/ballistic protective measures. This will increase base camp survivability of personnel and equipment against advanced conventional weapons and terrorist threats, reduce logistics requirements, and enhance the capability of the Objective Force in low-intensity conflicts and peacekeeping operations. The cited work is consistent with the Army Science and Technology Master Plan (ASTMP), the Army Modernization Plan. The program element contains no duplication with any effort within the Military Departments. This work is performed by the U.S. Army Engineer Research and Development Center. This project supports the Objective Force transition path of the Transformation Campaign Plan.</p> <p>No Defense Emergency Response Funds were provided to this project.</p>										
<u>Accomplishments/Planned Program</u>						<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	
Base Camp Protection/Survivability – In FY04, develop capability for base camp planning and layout, and develop base camp survivability measures for blast and ballistic protection suitable for use by Interim Stryker Brigades. In FY05, demonstrate initial integration of weapons effects data, survivability assessment procedures, and the Anti-Terrorist (AT) planning software for base camp planning and assessment. Demonstrate base camp survivability measures for blast and ballistic protection.						0	0	4916	3436	
Totals						0	0	4916	3436	